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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/754,145	01/09/2004	Benjamin C. Reed	ARC920030106US1	7481
61542 7590 07/08/2011 LEONARD T. GUZMAN IBM CORP., LAW DEPT., C4TA/J2B 650 HARRY ROAD SAN JOSE, CA 95120-6099				
EXAMINER				
TRUONG, LECHU				
ART UNIT		PAPER NUMBER		
2194				
NOTIFICATION DATE		DELIVERY MODE		
07/08/2011		ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary

Application No.

10/754,145

Applicant(s)

REED ET AL.

Examiner

LECHI TRUONG

Art Unit

2194

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 April 2011.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 24 and 25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 24, 25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-942)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

1. Claim 24-25 are presented for the examination.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

4. Claim 24 is rejected under 35 U.S.C. 101 because the claimed invention is directed to apparatus claims, but appearing to be comprised of software alone without claiming associated computer hardware required for execution. For example, claim 24 defines “apparatus” in the preamble and the body of the claim recites “a receiving module”, “a delegating module”, “an obtaining module”, “and an invoking module”. A receiving module, a delegating module, an obtaining module, an invoking module appears to be software module. Therefore, claim 24 is non-statutory because it recites a claim that comprises software per se embodiments.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claim 24, 25 are rejected under 35 U.S.C. 103(a) Atwal (US 7640348 B2) in view of Admitted Prior Art (APA).

As to claim 24, Atwal teaches the invention substantially as claimed including: a receiving module(client application connection 31, col 6, ln 60-67), a delegating module(client application 15, col 6, ln 60-67), obtaining module(The web services interface unit 312 , col 7, ln 21-35), invoking module(the gateway module 500, col 7, ln 25-35), the receiving a call for the at least one web service , where the call comprises a request and a response, delegating a call to a client bundle, returning a response from the invoked method on the at least one web service, return the response from the invoked method for the at least one web service. However, Atwal teaches receiving a call on the at least one web service, where the call comprises a request and a response, delegating a call to a client bundle, returning a response from the invoked method for the at least one web service (send a method call to a web service, col 5, ln 40-50/ The web services interface unit 312 receives the requested web service API contract from the web service 25 (654) in response to the APLI request. The web services interface unit 312 passes the API contract to the communication processor 311 to be passed back to the client application interface unit 310. The client application interface unit 310 sends the response through the appropriate client application 31 to the client application 15 from which the API request originated, col 8, ln 56-65/ Identifications of the methods of the web services are stored in the repository and grouped into bundles. A bundle of methods contains one or more methods from one or more web services. For example, consider four web services where a first web service contains 10 methods, a second web service contains 20 methods, a third web service contains 100 methods, and a

fourth web service contains 50 methods, col 21, ln 45-55/ The bundles 1802 comprise web services methods or routines 1803 which a client application 15 may use when calling web services service methods 1803, col 21, ln 65-67 to col 22, ln 1-5/ Subscribed client applications are given access to method calls 1803 of web services contained in bundles 1802 of a package 1801 to which they are a subscriber (1902). Access to web services method calls 1803 contained in the bundles 1802 is metered (1903), col 23, ln 33-49/delegating the processed communication to the web service, col 3, ln 22-25/ if a client application's billing type specifies that the client application has paid a certain fee which allows the client application to make X number of calls to a bundle of methods, col 23, ln 17-22/ If the method call does not have a corresponding response (606), then the method is done (610). Otherwise, the web services interface unit 312 receives a corresponding response from the web service 25 (607), in response to the method call. The web services interface unit 312 passes the response to the communication processor 311 to be passed back to the client application interface unit 310. The client application interface unit 310, sends the response through the appropriate client application connection 31 to the client application 15 from which the method call originated (608). The method is done (611), col 8, ln 25-31).

Atwal does not teach client as client bundle. However, APA teaches client bundle (Once service 130 has been registered, bundle 112 can query service registry 120 to find service 130 via a query, or a lookup, 142. Service registry 120 will return a reference to service 130, via a return 144. Therefore, bundle 112 can invoke methods on service 130, via an invoke 146, just as it can invoke methods on any other object, page 2, ln 29-31 to page 3, ln 1-3).

It would have been obvious to one of the ordinary skill in the art at the time the invention was made to modify the teaching of Atwal with APA to incorporate the feature of client bundle because this manages interaction between bundles using a service registry that enables a bundle to explicitly register objects to be shared with other bundles.

As to claim 25, it is an apparatus claim of claim 24; therefore, it is rejected for the same reason as claim 24 above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LeChi Truong whose telephone number is (571) 272-3767. The examiner can normally be reached on 8 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sough Hyung can be reached on (571) 272-6799. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIP. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIP system, contact the Electronic Business Center (EBC) at 866-217-9197(toll-free).

/LeChi Truong/

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Primary Examiner, Art Unit 2194

LeChi Truong

July 5, 2011